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DoD  
Electronic Data  
Interchange (EDI)  
Convention

ASC X12 Transaction Set 210  
Motor Carrier Invoice  
(Version 003020)

DF301LN2

May 1994 (Revision 1)

DISTRIBUTION STATEMENT A

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Department  
of  
Defense

# DoD Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 210  
Motor Carrier Invoice  
(Version 003020)

Accession For	
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DTIC TAB	<input type="checkbox"/>
Unannounced Justification	<input type="checkbox"/>
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1	1

This document was prepared by the Logistics Management Institute for the Defense Finance and Accounting Service - Indianapolis Center, and the Defense Logistics Agency under Task DF301. The task was performed under Contract MDA903-90-C-0006 with the Department of Defense.

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## 10.0 DoD EDI CONVENTION

### ASC X12 TRANSACTION SET 210 MOTOR CARRIER INVOICE (VERSION 003020)

FORMATTING INVOICE INFORMATION FOR THE DoD  
TRANSPORTATION PAYMENT SYSTEM USING THE X12.104  
TRANSACTION SET 210 MOTOR CARRIER INVOICE.

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NTIS CRA&I	<input checked="checked" type="checkbox"/>
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FORMATTING INVOICE INFORMATION FOR THE DoD  
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## 10.i INTRODUCTION

This is an electronic data interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) uses to accept a transportation invoice using the ASC X12.104 Transaction Set 210 Motor Carrier Invoice (003020). It contains information for the design of interface computer programs that link systems application computer programs with an EDI translator computer program.

### Who Needs to Use This Document

Computer programmers can use this document to identify the data in an EDI transaction with data requirements from their specific application database. Conversely, programmers can identify where their applications data requirements should be carried in an EDI transaction.

### Why Use a Convention

There are more ways to complete an EDI transaction than there are ways to fill out a blank form. A convention defines the rules for filling in or "populating" an EDI transaction with a specific data set. Following a convention ensures the integrity of data that is produced and processed by EDI-capable computer systems.

### Contents

Four sections are included in this document.

- Section 10.2, Control Segments, identifies the specific data requirements for formatting the interchange control segments needed to send and receive EDI transactions.
- Section 10.5, Data Element Cross-Reference Matrix, lists the DoD's data requirements and specifies where each data element should be carried in the transaction set. This section can be used to map an existing application database into the transaction set.
- Section 10.7, DoD Conventions, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the cross-reference data element from Section 10.5. This section can be used to interpret segments and data elements of a populated transaction set.
- Appendices contain examples of populated transaction sets, DoD code lists, and other items that serve as references for software developers.

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## 10.2 Control Segments

### Overview

This chapter describes the EDI control segments (interchange control and functional group segments). The control segment information was derived from the ASC X12 Standards Draft Version 3 Release 2 (003020).

### Purpose

This chapter identifies the specific data requirements for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments are usually managed by EDI translation software. The data requirements described herein should be used to set control segment formats when installing or initializing translation software for transmission and reception of EDI transactions.

### Contents

Two items are included in this chapter.

- Table 10.2-1, Interchange Control Segment Hierarchy, identifies the control segments in their order of occurrence in an EDI communications interchange.
- Table 10.2-2, DoD Convention ASC X12 Control Segments, presents a detailed description of the DoD's data conventions for formatting EDI standard control segments. All segments identified in Table 10.2-1 are broken down and described by their discrete data elements.

### Special Instructions

Any unique eight-bit (byte) character could serve as data element separator, segment terminator, or subelement separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange. The following recommended values are based on information published in Electronic Data Interchange, X12 Standards, Version 3, Release 2, Appendix B, Section 3.

#### Data Element Separator

While the data element separator is graphically displayed as an asterisk (\*) in ASC X12 documentation, it is the value employed in the fourth byte of an interchange envelope that actually assigns the separator that the translators will use throughout an interchange.

ASC X12 recommends the ASCII character with hexadecimal value "1D" for use as the data element separator (gs).

Segment Terminator

Likewise, the control envelope establishes the byte value used for segment termination within an interchange. ASC X12 documentation usually portrays this as a new line (n/l) character, but the actual segment terminator for an interchange will be the byte value occurring immediately following the ISA16 segment.

ASC X12 recommends the ASCII character with hexadecimal value "1C" for use as the segment (fs) terminator.

Subelement Separator

The ISA segment provides a discrete element (ISA16) for defining the subelement separator within an interchange. Although designated as reserved for future expansion in Version 3, Release 2, a value in ISA16 is required.

ASC X12 recommends the ASCII character with hexadecimal value "1F" for use as the subelement separation (us) character.

## TABLE 10.2-1

### Control Segment Hierarchy

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**Interchange Control Envelope  
Control Segments**

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ISA	Interchange Control Header	M	1	
USE	20	GS	Functional Group Header	M	1	
			<ul style="list-style-type: none"> <li>•</li> <li>• Grouped Transactions</li> <li>•</li> </ul>			
USE	30	GE	Functional Group Trailer	M	1	
USE	40	IEA	Interchange Control Trailer	M	1	

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## TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

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**Segment:** **ISA** Interchange Control Header**Usage:** M**Purpose:** To start and identify an interchange of one or more functional groups and interchange-related control segments.**Note:** The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>				
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the authorization information.	M ID 2/2				
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>00</td><td>No Authorization Information Present.</td></tr></table>				<u>Code</u>	<u>Definition</u>	00	No Authorization Information Present.
<u>Code</u>	<u>Definition</u>						
00	No Authorization Information Present.						
ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.	M AN10/10				
ISA03	I03	Security Information Qualifier Code to identify the type of information in the security information.	M ID 2/2				
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>00</td><td>No Security Information Present.</td></tr></table>				<u>Code</u>	<u>Definition</u>	00	No Security Information Present.
<u>Code</u>	<u>Definition</u>						
00	No Security Information Present.						
ISA04	I04	Security Information This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.	M AN10/10				

Authorization Qualifier  
[001 ]Authorization Info  
[002 ]

No authorization information is present, fill field with zeroes.

Security Qualifier  
[003 ]

Security Info  
[004 ]

No security information is present,  
fill field with zeroes.

Sender Qualifier  
[005 ]

Use authorized X12 code list.

Sender ID  
[006 ]

DoD activities use Department of  
Defense Activity Address Code  
(DoDAAC) or other code coor-  
dinated with the Defense Transpor-  
tation EDI Administrator.  
Non-DoD activities use identifica-  
tion code qualified by ISA05 and  
coordinated with value-added  
network (VAN).

Interchange Qualifier  
[007 ]

Use authorized X12 code list.

**ISA05 I05 Interchange ID Qualifier M ID 2/2**  
Qualifier to designate the system/method of code  
structure used to designate the sender or receiver  
ID element being qualified.

**ISA06 I06 Interchange Sender's ID M AN15/15**  
Identification code published by the sender for other  
parties to use as the receiver ID to route data to  
them. The sender always codes this number in the  
sender ID element.

**ISA07 I05 Interchange ID Qualifier M ID 2/2**  
Qualifier to designate the system/method of code  
structure used to designate the sender or receiver  
ID element being qualified.

**ISA08 I07 Interchange Receiver's ID M AN15/15**  
Identification code published by the receiver of the  
data. When sending, it is used by the sender as their  
sending ID, thus other parties sending to them will  
use this as a receiving ID to route data to them.

Receiver ID  
[008 ]

DoD activities use Department of  
Defense Activity Address Code  
(DoDAAC) or other code  
coordinated with the Defense-  
Transportation EDI Administrator.  
Non-DoD activities use identifica-  
tion code qualified by ISA07 and  
coordinated with value-added  
network (VAN).

Date  
[009 ]

Date assigned by translation  
software.

Time  
[010 ]

Time, expressed in HHMM format,  
assigned by translation software.

Standards ID  
[011 ]

Version ID  
[012 ]

Version/release of control  
segment, as defined or agreed  
upon by the trading partners.

ISA09 I08 Interchange Date M DT 6/6  
Date of the interchange.

ISA10 I09 Interchange Time M TM 4/4  
Time of the interchange.

ISA11 I10 Interchange Control Standards M ID 1/1  
Identifier  
Code to identify the agency responsible for the con-  
trol standard used by the message that is enclosed by  
the interchange header and trailer.

Code	Definition
U	U.S. EDI Community of ASC X12, TDCC, and UCS

ISA12 I11 Interchange Control Version M ID 5/5  
Number  
This version number covers the interchange control  
segments.

Code	Definition
00302	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1991

Interchange Control Number  
[013 ]

Assigned by translation software.

Acknowledgment Request  
[014 ]

Code value agreed upon by trading partners.

Test Indicator  
[015 ]

Code value agreed upon by trading partners.

Subelement Separator  
[016 ]

ASC X12 recommends the ASCII character with hexadecimal value "1F" for use as the subsequent separation character.

**ISA13 I12 Interchange Control Number M NO 9/9**

This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.

**ISA14 I13 Acknowledgment Requested M ID 1/1**

Code sent by the sender to request an interchange acknowledgement.

Code	Definition
0	No Acknowledgment Requested
1	Interchange Acknowledgement Requested

**ISA15 I14 Test Indicator M ID 1/1**

Code to indicate whether data enclosed by this interchange envelope is test or production.

Code	Definition
P	Production Data
T	Test Data

**ISA16 I15 Subelement Separator M AN 1/1**

This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this must be different from the data element separator).

**Segment:** **GS** Functional Group Header

**Usage:** M

**Purpose:** To indicate the beginning of a functional group and to provide control information.

**Comment:** 00 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

04 GS04 is the Group Date.

05 GS05 is the Group Time.

**Syntax Notes:** 06 The data interchange control number GS06 in this header must be identical to the same data element in the associated Functional Group Trailer GE02.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
-----------	--------------	------	------------

GS01	479	Functional ID Code	M ID 2/2
------	-----	--------------------	----------

Code identifying a group of application related Transaction Sets.

#### Code Definition

IA	110 - Air Freight Details and Invoice
IM	210 - Freight Details and Invoice (Motor)
MI	213 - Carrier Shipment Status Inquiry
QM	214 - Shipment Status Message
IR	410 - Freight Details and Invoice (Rail)
TS	602 - Transportation Services
RA	820 - Payment Order/Remittance Advice
SI	858 - Shipment Information
FB	859 - Freight Invoice (Generic Mode)
CG	994 - Administrative Message
FA	997 - Functional Acknowledgement

Functional ID  
[020 ]

Choose the code value appropriate to the transaction type of the functional group. See X12 Dictionary for source code list.

GS02	142	Application Sender's Code	M AN 2/15
------	-----	---------------------------	-----------

Code identifying party sending transmission. Codes agreed to by trading partners.

Sender's Code  
[021]

DoD activities use Department of Defense ActivityAddress Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA06.

Receiver's Code  
[022]

DoD activities use Department of Defense ActivityAddress Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA08.

Date  
[023]

Date assigned by translation software.

Time  
[024 ]

Time, expressed in HHMM format, assigned by translation software.

Group Control Number  
[025 ]

Assigned by translation software.

**GS03 124 Application Receiver's Code M AN 2/15**

Code identifying party receiving transmission. Codes agreed to by trading partners.

**GS04 373 Date M DT 6/6**

Date (YYMMDD).

**GS05 337 Time M TM 4/6**

Time expressed in 24 hour clock time (HHMMSS) (Time range: 000000 through 235959).

**GS06 28 Group Control Number M NO 1/9**

Assigned number originated and maintained by the sender.

**GS07 455 Responsible Agency Code M ID 1/2**

Code used in conjunction with Data Element 480 to identify the issuer of the standard.

Agency Code  
[026 ]

Indicates that an ANSI X12 standard is being transmitted.

Version/Release  
[027 ]

Version/release for transactions in the functional group. See X12 Dictionary for source code list.

Code   Definition

X   Accredited Standards Committee X12

**GS08   480   Version/Release/Industry Id Code   M   AN 1/12**

Code indicating the version, release, subrelease and industry identifier of the EDI standard being used (see X12 Dictionary).

Code   Definition

003020   Draft Standard Approved By ASC X12 Through June 1991

**Segment:** **GE** Functional Group Trailer

**Usage:** M

**Purpose:** To indicate the end of a functional group and to provide control information.

**Comment:** 00 The use of identical data interchange control numbers in the associated functional group header and trailer is assigned to maximize functional group integrity. The control number is the same as that used in the corresponding header.

**Syntax Notes:** 02 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated Functional Group Header GS06.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Included Sets	M NO 1/6
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.	
GE02	28	Group Control Number	M NO 1/9
		Assigned number originated and maintained by the sender.	

Number of Segments  
[028 ]

Assigned by the translation  
software.

Group Control Number  
[029 ]

Assigned by the translation  
software. This control number  
must match the control number  
that occurs in GS06.



**Segment:** IEA Interchange Control Trailer

**Usage:** M

**Purpose:** To define the end of an interchange of one or more functional groups and interchange-related control segments.

**Note:** The interchange control number in this trailer must match the value in the same data element in the corresponding interchange header.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	I16	Number of Included Functional Groups	M N0 1/5
		A count of the number of functional groups included in a transmission.	

Functional Group Count  
[040 ]

Assigned by translation software.

IEA02	I12	Interchange Control Number	M N0 9/9
		This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	

Interchange Control Number  
[041 ]

Assigned by translation software.  
This number must match the number that occurs in ISA13.

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## 10.5 DATA ELEMENT CROSS-REFERENCE MATRIX

### Overview

This chapter lists the data element cross-reference for DoD ASC X12.104 Transaction Set 210 Motor Carrier Invoice (003020). We derived the cross-reference from the following:

- Examination of DoD transportation invoice information data requirements.
- Analysis of ASC X12.104 Transaction Set 210 Motor Carrier Invoice.
- Comments submitted by Defense activities and commercial carriers involved in the DoD's EDI program in transportation.

### Purpose

This chapter identifies the specific data in an application and their corresponding EDI mapping into the Transaction Set 210. The resultant cross-reference matrix can be used to identify data elements from an existing application database. If no application exists, the matrix provides enough information to develop a database design to automate the application. With an application in place, the matrix will expedite mapping of the database into a commercial EDI translation package. All trading partners who plan to exchange the 210 with DoD can use this cross-reference matrix to develop their database/EDI translator interface program.

### Contents

Table 10.5-1, Data Element Cross-Reference, lists all discrete data elements required for the invoice, corresponding segments, and data element numbers for the ASC X12.104 Transaction Set 210 Motor Carrier Invoice.

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## TABLE 10.5-1

### DATA ELEMENT CROSS-REFERENCE

#### Data Requirements for Generating DoD Transportation Invoices using the X12.104 Transaction Set 210 Motor Carrier Invoice

#### How To Read This Table

Table 10.5-1 cross-references discrete DoD invoice data requirements to the corresponding segment and data elements of the Transaction Set 210. The following definitions explain how Table 10.5-1 is organized. Understanding the information in this table requires familiarity with EDI standards.

#### Government References

The first three columns on the left in Table 10.5-1 identify the specific invoice data element.

- **DATA NAME:** Lists individual data elements required to send a transportation invoice. Users should identify these elements with a data name in their internal database system.
- **INDEX:** Three entries may appear in this column and represent various levels of indexing used to sort the data names in a data dictionary.
- **Data Grp:** This column contains a numeric value which is used to classify data elements to a functional area of a business transaction set. See Special Instructions below for further explanation.

#### EDI References

The remaining seven columns identify the detailed mapping of each data name into Transaction Set 210. Use of these references is explained below in "How To Use This Table".

- **TBL:** The table area of the transaction set where the data are mapped. 1 = header, 2 = detail, 3 = summary.
- **POS:** The sequential position of a specific segment within the table area of the transaction set.
- **REF DES:** The alphanumeric characters identify a transaction set segment; the two numeric characters in the column identify a data element position in the segment.
- **DE #:** The EDI data element number that appears at that position in the segment.

- **VALUE:** The recommended code value(s) that should be used.
- **DoD CONVENTIONS:** Additional information about the data as they apply to DoD use.

## How To Use This Table

This table traces a data element to a specific data element in the EDI transaction set convention Table 10.7-3.

1. Select any data element from the DATA NAME list.
2. Identify the TBL, POS, and REF DES for that DATA NAME.
3. Go to Table 10.7-2, DoD Segment Hierarchy.
4. Find the TBL (Table 1 = header, etc.) in the hierarchy.
5. Locate the segment that corresponds to the POS and the REF DES. (NOTE: Where the POS does not appear in some hierarchy tables, use the segment ID identified by the alphanumeric characters in the REF DES.)
6. In the left-hand column, identify the page number of the segment ID.
7. Turn to that page number in Table 10.7-3.
8. In Table 10.7-3, find the REF DES from step 2 under the Ref. Des. column to the right of the double vertical lines on the page.
9. You have now traced a data element from Table 10.5-1 to Table 10.7-3.

From Table 10.5-1, the DATA NAME along with its INDEX and the DoD CONVENTION appear in the left-hand column of Table 10.7-3. The EDI standard definition of the data element appears in the right-hand column of the page.

Each DATA NAME from Table 10.5-1 can be traced to the transaction set in this manner.

NOTE: To reference from Table 10.7-3 back to Table 10.5-1, use the INDEX as a look-up key.

## Special Instructions

- The Data Group identifier groups functionally similar data. Those groups are described below:

- > Data Group 10 - Header Information. Elements in this group generally occur in the header area of the transaction set. This group occurs once per invoice.
- > Data Group 70 - Tendered to Carrier SCAC Information. This group occurs once per invoice.
- > Data Group 71 - Destination Transportation Company Information. This group occurs once per invoice.
- > Data Group 73 - Consignee Information. This group occurs once per invoice.
- > Data Group 76 - Diversion/Reconsignment Information. This group occurs once per invoice.
- > Data Group 78 - Issuing Office Information. This group occurs once per invoice.
- > Data Group 79 - International Shipments Information. This group occurs once per invoice.
- > Data Group 100 - Service Charge Information. This group repeats for each service charge.
- > Data Group 900 - Invoice Totals Information. This group occurs once per invoice.

210 MOTOR CARRIER INVOICE  
DATA NAMEINDEX      Data  
Grp    TBL    POS    REF    DES    DE #    VALUE    DoD CONVENTION

Transaction Set ID      [001 ]      10    1    10    ST01    143    210    - X12.104 Motor Carrier Freight Details and Invoice

Transaction Set Control Number      [002 ]      10    1    10    ST02    329

The application and structure of the control number must be agreed upon between DoD and its trading partners. The first five digits indicate the interchange control number. The last four digits represent the sequence of the transaction within the functional group.

Invoice Number      [003 ]      10    1    20    B302    76

Transportation service provider's unique invoice number.

GBL Number      [004 ]      10    1    20    B303    145

DoD unique number representing a shipment. The number is made up of one or two alpha characters followed by six or seven numbers. Do not use any punctuation or special characters.

Shipment Method of Payment      [005 ]      10    1    20    B304    146      CC    - Collect  
PP    - Prepaid

CHANGE NOTE: Add New Code. DTSSC DM 077A.  
Requester: DFAS-IN

Invoice Date      [006 ]      10    1    20    B306    373

Date the invoice is issued in YYMMDD format.



Total Charges	[007 J	10 1 20	B307	193	Total shipment charge including linehaul, accessorial, special, and fuel surcharge. Implied decimal at second position from right.
Correction Indicator	[008 J	10 1 20	B308	202	AD - Supplemental CA - Cancel
Delivery Date	[009 J	10 1 20	B309	32	If the invoice is submitted for the first time (original invoice), this optional data field is not used.
Delivery Date Qualifier	[010 J	10 1 20	B310	374	035 - Delivered
Billing Carrier SCAC	[011 J	10 1 20	B311	140	Date shipment is delivered to consignee. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in B310. Required for freight shipments only.
Discount Percent	[012 J	10 1 50	ITD03	338	Use the SCAC of the carrier that issues the invoice.
Discount Days	[013 J	10 1 50	ITD05	351	Discount terms, expressed as a percent, available to the purchaser if an invoice is paid on or before the number of discount days has expired. Decimal point is optional for integer values but required for decimal values. Express accuracy to hundredths of a percent (i.e. 10.5 percent is expressed as 10.50).
CHANGE NOTE: Change definition. DTSSC DM 0051. Requester: DFAS-IN					
The number of days in the terms discount period by which payment is due if terms discount is earned.					

210 MOTOR CARRIER INVOICE  
DATA NAMEINDEX      Data  
Grp TBL POS      REF      DE #      VALUE      DoD CONVENTIONCarrier Reference Number  
Qualifier

[014 ]      10   1   60      N901      128      CN      - Carrier Reference Number (PRO Number)

Carrier Reference Number

[015 ]      10   1   60      N902      127

Optional data field available for carriers to express reference number other than invoice number. Qualify in N901.

Payee Code Qualifier

[016 ]      10   1   60      N901      128      PQ      - Payee Identification

Payee Code

[017 ]      10   1   60      N902      127

Identification assigned by DoD payment center. Qualify in N901.

Payee Zip Code

[018 ]      10   1   60      N903      369

Zip code of location that payee authorizes payment to be sent. Must match payee information on file at payment center.

Carrier Pickup Date Qualifier

[019 ]      10   1   70      G6201      432      86      - Actual Pickup Date

Carrier Pickup Date

[020 ]      10   1   70      G6202      373

Date carrier picked up shipment. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in G6201.

Carrier Pickup Time Qualifier

[021 ]      10   1   70      G6203      176      8      - Actual Pickup Time

Carrier Pickup Time

[022 ]      10   1   70      G6204      337

Use format HHMM. Qualify in G6203. Required for freight shipments only.

Damage Indicator	[023 ]	10	1	100	K101	61	Use code "D" to indicate damage and/or shortage apparent upon delivery.
Waiver Indicator	[024 ]	10	1	100	K101	61	Use code "W" to certify that a waiver has been received.
Issuing Office Qualifier	[026 ]	78	1	110	N101	98	IU - Issuer
Issuing Office GBLOC Qualifier	[027 ]	78	1	110	N103	66	27 - Government Bill Of Lading Office Code (GBLOC)
Issuing Office GBLOC	[028 ]	78	1	110	N104	67	Code of Government office that issues GBL. Qualify in N103.
Consignee Qualifier	[029 ]	73	1	110	N101	98	CN - Consignee
Consignee GBLOC Qualifier	[030 ]	73	1	110	N103	66	27 - Government Bill of Lading Office Code (GBLOC)
Consignee GBLOC	[031 ]	73	1	110	N104	67	Code of Government office responsible for shipment at destination. Qualify in N103. Not required for freight shipments.
Tendered To Carrier Qualifier	[031 105 ]	70	1	110	N101	98	OC - Origin Carrier
Tendered To Carrier SCAC Qualifier	[031 110 ]	70	1	110	N103	66	2 - Standard Carrier Alpha Code (SCAC)

210 MOTOR CARRIER INVOICE  
DATA NAMEINDEX      Data  
Grp   TBL   POS   REF   DE #   VALUE   DoD CONVENTION

Tendered To Carrier SCAC      [031 120 J]      70   1   110   N104   67

Use SCAC of origin carrier. Qualify in N103.

Destination Transportation  
Company Qualifier

[032 J]      71   1   110   N101   98   DC   - Destination Carrier

Destination Transportation  
Company SCAC Qualifier

[033 J]      71   1   110   N103   66   2   - Standard Carrier Alpha Code (SCAC)

Destination Transportation  
Company SCAC

[034 J]      71   1   110   N104   67

Use SCAC of carrier making the delivery. Qualify in N103.  
Required for freight shipments only.Diversion/Reconsignment From  
Qualifier

[038 J]      76   1   110   N101   98   T4   - Transfer Point

Diversion/Reconsignment From  
SPLC Qualifier

[039 J]      76   1   110   N103   66   20   - Standard Point Location Code (SPLC)

Diversion/Reconsignment From  
SPLC

[040 J]      76   1   110   N104   67

SPLC of location where diversion occurs. Qualify in N103.  
Required for freight shipments only.

Alternate Terminal Qualifier

[040 010 J]      79   1   110   N101   98   TR   - Terminal

DEPARTMENT OF DEFENSE  
EDI CONVENTION

MOTOR CARRIER INVOICE  
210.003020

Alternate Port or Terminal Code [040 011 ] 79 1 110 N102 93

Use the authorized code, identified in the international personal property rate solicitation, of the alternate Military Ocean/Aerial Terminal (MOT/MAT) used for code T and 5 shipments when rate solicitation item 528 applies. Use the authorized code, identified in the international personal property rate solicitation, of the alternate Aerial Port of Embarkation or Debarkation (APOE or APOD) used for code J shipments when rate solicitation 529 applies. Not required for freight shipments.

Air/Ocean Carrier Name Qualifier [041 ] 79 1 110 N101 98 CA - Carrier Name

Air/Ocean Carrier Name [042 ] 79 1 110 N102 93

Use to certify use of air/ocean carrier for international shipments. Qualify in N101.

Vessel Name [043 ] 79 1 120 N201 93

Ocean carrier's vessel name.

Air/Ocean Bill Number Qualifier [044 ] 79 1 150 N901 128 AW - Air Bill of Lading  
OB - Ocean Bill of Lading

Air/Ocean Bill Number [045 ] 79 1 150 N902 127

Air or ocean bill of lading number. Qualify in N901.

Waiver Control Number Qualifier [046 ] 79 1 150 N901 128 XC - Cargo Control Number

Waiver Control Number [047 ] 79 1 150 N902 127

Use to certify U.S. Flag waiver issued. Qualify in N901.

Authorized Representative Name [048 ] 79 1 150 N903 369

Use to certify U.S. Flag waiver issued. Qualify in N901.

210 MOTOR CARRIER INVOICE  
DATA NAMEINDEX      Data  
Grp      TBL      POS      REF      DE #      VALUE      DoD CONVENTION

Service Charge Loop Identifier

[049 ]      100 2      120      LX01      554

Assign a sequential number for each charge type except as follows: assign number 301 for personal property accessorial service charges performed at origin or in transit, and assign number 302 for personal property accessorial service charges performed at destination.

Extra Pickup/Delivery Location  
Qualifier

[049 010 ]      100 2      130      N901      128      LU      -      Location Number

Extra Pickup/Delivery State Code

[049 015 ]      100 2      130      N902      127

Use 2-character state code (FIPS-PUB-5-1) of location of extra pickup/delivery where additional service occurred. Use only for personal property shipments with DoD accessorial item codes of 101 or any item that uses rates for item 101, 112, and/or any item that uses rates for item 502. Qualify in N901. Not required for freight shipments.

Number of Units Performed

[050 ]      100 2      170      L002      220

Number of units of service performed. Qualified in L003. Not required for freight shipments.

Number of Units Performed  
Qualifier

[050 010 ]      100 2      170      L003      221

See Appendix 10.F for application.

Weight

[050 015 ]      100 2      170      L004      81

Weight of the personal property if L112 is 112A, 112B, 112C, 130D, 145B, 152D, 518A, 518C, or 534A. Qualified in L005. Not required for freight shipments.

Weight Qualifier	[050 020 ]	100 2	170	L005	187	B	- Billed Weight
Weight Unit Qualifier	[050 025 ]	100 2	170	L011	188	L	- Pounds
Service Charge	[051 ]	100 2	180	L104	58		Charge for each service identified in L108. Implied decimal at second position from right.
Service Charge Code	[052 ]	100 2	180	L108	150		Services regulated by the Military Traffic Management Command (MTMC). See Billing Instructions available from DoD payment center for more information. See Appendix 10.F for cross reference from DoD codes to ASC X12 codes.
Service Charge Description	[053 ]	100 2	180	L112	276		Use a free-form description of any third party or miscellaneous service code identified in L108. In addition, use DoD code that further describes a personal property service. See Appendix 10.F for application.
Tariff/Tender Miles	[054 ]	100 2	200	L713	294		Mileage used in calculating mileage-related charges. Qualify in L714.
Tariff/Tender Miles Qualifier	[055 ]	100 2	200	L714	295	T	- Tariff/Tender Miles
Total Billed Weight	[055 020 ]	900 3	10	L301	81		Total billed weight in pounds, rounded to whole number. If not applicable to invoice, enter 0.
Total Billed Weight Qualifier	[055 025 ]	900 3	10	L302	187	B	- Billed Weight

210 MOTOR CARRIER INVOICE  
DATA NAME

INDEX      Data Grp      TBL      POS      REF      DES      DE #      VALUE      DoD CONVENTION

Included Number of Segments

[056 ]      900      3      20      SE01      96

Total segments in this transaction set including the ST and SE segments.

Transaction Set Control Number

[057 ]      900      3      20      SE02      329

This data element ends the transaction set and should match the number that appears in the ST02 at the beginning of the transaction set.



## 10.7 DoD CONVENTIONS

### Overview

This chapter presents the DoD's convention for accepting a transportation invoice using the ASC X12.104 Transaction Set 210 (Version 003020). It was derived from:

- Table 10.5-1, Data Element Cross-Reference Matrix, that describes the discrete DoD data requirements for invoices.
- ASC X12.104 Transaction Set 210 Motor Carrier Invoice.

A relational database management system was used to merge the Data Element Cross-Reference Matrix and a Transaction Set 210 database into the subset of 210 segments described in Table 10.7-3 of this chapter.

### Purpose

This chapter contains all necessary information for a DoD trading partner to map and translate a Transaction Set 210. All trading partners who plan to exchange the Transaction Set 210 can use this document as a reference for the development of their EDI database/translator interface program.

### Contents

This chapter contains three tables.

- Table 10.7-1, ASC X12.104 Transaction Set 210 DoD Segment Hierarchy, describes the 210 segments as they appear in the ASC X12 Standards Dictionary.
- Table 10.7-2, DoD Model Transaction Set 210 DoD Segment Hierarchy, describes the subset of 210 segments used for sending transportation invoices.
- Table 10.7-3, DoD 210 Convention, is a detailed description of the DoD's convention for transmitting Transaction Set 210. All segments identified in Table 10.7-2 are detailed in Table 10.7-3 by segment, position, and code value.

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## TABLE 10.7-1

### SEGMENT HIERARCHY

ASC X12.104 TRANSACTION SET 210  
MOTOR CARRIER INVOICE  
(Version 003020)

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ASC X12.104 Transaction Set 210  
Motor Carrier Freight Details and Invoice  
(Version 003020)  
Segment Hierarchy

Table 1 - Header Area

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST	Transaction Set Header	M	1	
USE	20	B3	Beginning Segment for Carrier's Invoice	M	1	
	30	C2	Bank ID	O	1	
	40	C3	Currency	O	1	
USE	50	ITD	Terms of Sale/Deferred Terms of Sale	O	1	
USE	60	N9	Reference Number	O	10	
USE	70	G62	Date/Time	O	6	
	80	R3	Route Information - Motor	O	12	
	90	H3	Special Handling Instructions	O	6	
USE	100	K1	Remarks	O	10	
USE	110	N1	Name	O	1	N1/10
USE	120	N2	Additional Name Information	O	1	
	130	N3	Address Information	O	2	
	140	N4	Geographic Location	O	1	
USE	150	N9	Reference Number	O	5	
	160	N7	Equipment Details	O	1	N7/10
	170	M7	Seal Numbers	O	2	

Table 2 - Detail Area

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
	10	S5	Stop Off Details	O	1	S5/999
	20	N9	Reference Number	O	10	
	30	G62	Date/Time	O	10	
	40	H3	Special Handling Instructions	O	6	
	50	N1	Name	O	1	N1/2

	<b>60 N2</b>	Additional Name Information	O	1	
	<b>70 N3</b>	Address Information	O	2	
	<b>80 N4</b>	Geographic Location	O	1	
	<b>90 N9</b>	Reference Number	O	5	
	<b>100 N7</b>	Equipment Details	O	1	N7/10
	<b>110 M7</b>	Seal Numbers	O	2	
USE	<b>120 LX</b>	Assigned Number	O	1	LX/999
USE	<b>130 N9</b>	Reference Number	O	5	
	<b>140 L5</b>	Description, Marks and Numbers	O	30	
	<b>150 H1</b>	Hazardous Material	O	3	
	<b>160 H2</b>	Additional Hazardous Material Description	O	2	
USE	<b>170 L0</b>	Line Item - Quantity and Weight	O	10	
USE	<b>180 L1</b>	Rate and Charges	O	10	
	<b>190 L4</b>	Measurement	O	10	
USE	<b>200 L7</b>	Tariff Reference	O	10	
	<b>210 K1</b>	Remarks	O	10	

Table 3 - Summary Area

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	<b>10</b>	<b>L3</b>	Total Weight and Charges	M	1	
USE	<b>20</b>	<b>SE</b>	Transaction Set Trailer	M	1	

---

## TABLE 10.7-2

### DoD SEGMENT HIERARCHY

### DoD MODEL FOR TRANSACTION SET 210 MOTOR CARRIER INVOICE

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**DoD Model Transaction Set 210  
Motor Carrier Invoice  
Segment Hierarchy****Table 1 - Header Area**

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
13	10	ST	Transaction Set Header	M	1	
14	20	B3	Beginning Segment for Carrier's Invoice	M	1	
17	50	ITD	Terms of Sale/Deferred Terms of Sale	O	1	
19	60	N9	Reference Number	O	10	
21	70	G62	Date/Time	O	6	
23	100	K1	Remarks	O	10	
24	110	N1	Name	O	1	N1/10
28	120	N2	Additional Name Information	O	1	
29	150	N9	Reference Number	O	5	

**Table 2 - Detail Area**

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
31	120	LX	Assigned Number	O	1	LX/999
32	130	N9	Reference Number	O	5	
33	170	L0	Line Item - Quantity and Weight	O	10	
35	180	L1	Rate and Charges	O	10	
37	200	L7	Tariff Reference	O	10	

**Table 3 - Summary Area**

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
39	10	L3	Total Weight and Charges	M	1	
41	20	SE	Transaction Set Trailer	M	1	

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## TABLE 10.7-3

### DoD 210 CONVENTION

#### How To Read This Table

This table contains two sets of references: ASC X12 references are provided in the right-hand column, while Government references are presented in the left-hand column except for codes lists which are included in the right-hand column.

#### ASC X12 References

The right-hand column describes the ASC X12 convention. The information included at the beginning of a segment description is standard ASC X12 information. The subheadings listed under Data Element Summary describe conventions for each data element in the segment.

- > Ref Des, Data Element, Attributes: Three subheadings describe the format of the segment as prescribed by ASC X12.
- > Name: Describes the ASC X12 data element and offers the standard definition. It also lists the specific code values the DoD prescribes and may provide other DoD information.

#### Government References

The left-hand and middle columns in Table 10.7-3 describe the DoD's conventions.

- Left-hand column contains two general references.
  - > INDEX: It is enclosed in brackets and corresponds to a specific INDEX from Table 10.5-1.
  - > DATA NAME: Appears above the INDEX and corresponds to a specific DATA NAME from Table 10.5-1.
- Middle column: May contain a less-than sign (<) to indicate where the DoD's convention varies from the ASC X12.

To help the user determine the source data, the INDEX can be used to trace data elements back to Table 10.5-1.

#### How To Use This Table

This table can be used to identify the data contained in a populated Transaction Set 210.

1. Identify a segment from a populated transaction set (see Appendix 10.C for examples of the 210).

2. Look up the segment in Table 10.7-3.

3. Read the right-hand column to identify the Reference Designator (Ref.Des.). The Reference Designator combines the segment ID and the data element position to form a single identifier.

4. Read the left-hand column immediately adjacent to the Reference Designator to find the discrete DATA NAME, INDEX, and DoD CONVENTION that can be traced to Table 10.5-1 for that Reference Designator. When multiple DATA NAMEs appear for a single Reference Designator, there is usually a code qualifier within the same segment that identifies the data.

**Segment:** ST Transaction Set Header  
**Level:** 1  
**Sequence:** 10  
**Usage:** M  
**Max Use:** 1  
**Loop:**  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Comment:** 01 The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	143	Transaction Set Identifier Code	M ID 3/3
Code uniquely identifying a Transaction Set.			

Code	Definition
210	X12.104 Motor Carrier Freight Details and Invoice

ST02	329	Transaction Set Control Number	M AN 4/9
Identifying control number assigned by the originator for a transaction set.			

Transaction Set ID  
[001 ]

Transaction Set Control  
Number  
[002 ]

The application and structure of the control number must be agreed upon between DoD and its trading partners. The first five digits indicate the interchange control number. The last four digits represent the sequence of the transaction within the functional group.

**Segment:** B3 Beginning Segment for Carrier's Invoice

**Level:** 1

**Sequence:** 20

**Usage:** O

**Max Use:** 1

**Loop:**

**Purpose:** To transmit basic data relating to carrier's invoice.

**Comment:** 06 B306 is the Billing Date.

**Syntax Notes:** 09 P0910 - If either B309 or B310 is present, then the other is required.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
B301	147	Shipment Qualifier	O ID 1/1
B302	76	Invoice Number Identifying number assigned by issuer.	M AN 1/22
B303	145	Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification. (Does not contain blanks or special characters.)	O AN 1/30
B304	146	Shipment Method of Payment Code identifying payment terms for transportation charges.	M ID 2/2

Invoice Number  
[003 ]

Transportation service provider's  
unique invoice number.

GBL Number  
[004 ]

DoD unique number representing a  
shipment. The number is made up  
of one or two alpha characters  
followed by six or seven numbers.  
Do not use any punctuation or  
special characters.

Shipment Method of  
Payment  
[005 ]

Code Definition

CC Collect  
PP Prepaid

**B305 188 Weight Unit Qualifier O ID 1/1**

**B306 373 Date M DT 6/6**  
Date (YYMMDD).

Invoice Date  
[006 ]

Date the invoice is issued in  
YYMMDD format.

**B307 193 Net Amount Due M N2 1/9**  
Total charges to be paid by the receiver of this  
transaction set expressed in the standard monetary  
denomination for the currency specified.

Total Charges  
[007 ]

Total shipment charge including  
linehaul, accessorial, special, and  
fuel surcharge charges. Implied  
decimal at second position from  
right.

**B308 202 Correction Indicator O ID 2/2**  
Code used to indicate that the transaction set  
contains information which corrects a previous  
billing.

Correction Indicator  
[008 ]

If the invoice is submitted for the  
first time (original invoice), this  
optional data field is not used.

Code Definition

AD Supplemental  
CA Cancel

**B309 32 Delivery Date C DT 6/6**  
Date for delivery of cargo to final consignee or to  
next mode.

Delivery Date  
[009 ]

Date shipment is delivered to  
consignee. Not required for  
submission of supplemental  
invoices. Use format YYMMDD.  
Qualify in B310. Required for  
freight shipments only.

Delivery Date Qualifier  
[010 ]

Billing Carrier SCAC  
[011 ]

Use the SCAC of the carrier that  
issues the invoice.

**B310 374 Date/Time Qualifier C ID 3/3**  
Code specifying type of date or time, or both date  
and time.

Code	Definition
035	Delivered

**B311 140 Standard Carrier Alpha Code M ID 2/4**  
Standard Carrier Alpha Code

**B312 373 Date O DT 6/6**



**Segment:** ITD Terms of Sale/Deferred Terms  
of Sale**Level:** 1**Sequence:** 50**Usage:** O**Max Use:** 1**Loop:****Purpose:** To specify terms of sale.**Comment:** 01 If the code in ITD01 is 04, then ITD09  
is required and either ITD10 or ITD11  
is required. If the code in ITD01 equals  
05, then ITD06 or ITD07 is required.  
15 ITD15 is the percentage applied to a  
base amount used to determine a late  
payment charge.**Syntax Notes:** 03 L03040513 - If ITD03 is present, at  
least one of ITD04, ITD05 or ITD13 are  
required.  
08 L08040513 - If ITD08 is present, at  
least one of ITD04, ITD05 or ITD13 are  
required.  
09 L091011 - If ITD09 is present, at least  
one of ITD10 or ITD11 are required.**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
ITD01	336	Terms Type Code	O ID 2/2
ITD02	333	Terms Basis Date Code	O ID 1/2
ITD03	338	Terms Discount Percent	O R 1/6
Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.			
ITD04	370	Terms Discount Due Date	C DT 6/6

**Discount Percent**  
[012 ]

Discount terms, expressed as a percent, available to the purchaser if an invoice is paid on or before the number of discount days has expired. Decimal point is optional for integer values but required for decimal values. Express accuracy to hundredths of a percent (i.e. 10.5 percent is expressed as 10.50).

Discount Days  
[013 ]

The number of days in the terms discount period by which payment is due if terms discount is earned.

ITD05	351	Terms Discount Days Due	C	N0	1/3
Number of days in the terms discount period by which payment is due if terms discount is earned.					
ITD06	446	Terms Net Due Date	O	DT	6/6
ITD07	386	Terms Net Days	O	N0	1/3
ITD08	362	Terms Discount Amount	O	N2	1/10
ITD09	388	Terms Deferred Due Date	O	DT	6/6
ITD10	389	Deferred Amount Due	C	N2	1/10
ITD11	342	Percent of Invoice Payable	C	R	1/5
ITD12	352	Description	O	AN	1/80
ITD13	765	Day of Month	C	N0	1/2
ITD14	107	Payment Method Code	O	ID	1/1
ITD15	954	Percent	O	R	1/10

**Segment:** N9 Reference Number

**Level:** 1

**Sequence:** 60

**Usage:** M

**Max Use:** 10

**Loop:**

**Purpose:** To transmit identifying numbers and descriptive information as specified by the reference number qualifier

**Syntax Notes:** 02 R0203 - At least one of N902 or N903 is required.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
-----------	--------------	------	------------

N901	128	Reference Number Qualifier	M ID 2/2
------	-----	----------------------------	----------

Code qualifying the Reference Number.

#### Code Definition

CN	Carrier Reference Number (PRO Number)
----	---------------------------------------

#### Code Definition

PQ	Payee Identification
----	----------------------

N902	127	Reference Number	C AN 1/30
------	-----	------------------	-----------

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Carrier Reference Number  
Qualifier  
[014 ]

Payee Code Qualifier  
[016 ]

Carrier Reference Number  
[015 ]

Optional data field available for carriers to express reference number other than invoice number. Qualify in N901.

Payee Code  
[017 ]

Identification assigned by DoD payment center. Qualify in N901.

N903	369	Free-form Description	C AN 1/45
------	-----	-----------------------	-----------

Free-form descriptive text.

Payee Zip Code  
[018 ]

Zip code of location that payee  
authorizes payment to be sent.  
Must match payee information on  
file at payment center.

N904 373 Date

O DT 6/6

N905 337 Time

O TM 4/6

Segment: **G62** Date/Time

Level: 1

Sequence: 70

Usage: C

Max Use: 6

Loop:

Purpose: To specify pertinent dates and times

Syntax Notes: 01 R0103 - At least one of G6201 or G6203 is required. P0102 - If either G6201 or G6202 is present, then the other is required.

03 P0304 - If either G6203 or G6204 is present, then the other is required.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
G6201	432	Date Qualifier Code specifying type of date.	C ID 2/2
		<u>Code</u> <u>Definition</u>	
		86   Actual Pickup Date	
G6202	373	Date Date (YYMMDD).	C DT 6/6
G6203	176	Time Qualifier Code specifying the reported time.	C ID 1/1
		<u>Code</u> <u>Definition</u>	
		8   Actual Pickup Time	
G6204	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	C TM 4/6

Carrier Pickup Date Qualifier  
[019 ]

Carrier Pickup Date  
[020 ]

Date carrier picked up shipment.  
Not required for submission of  
supplemental invoices. Use  
format YYMMDD. Qualify in  
G6201.

Carrier Pickup Time Qualifier  
[021 ]

Carrier Pickup Time  
[022 ]

Use format HHMM. Qualify in  
G6203. Required for freight ship-  
ments only.

G6205 623 Time Code

O ID 2/2

Segment: **K1** Remarks

Level: 1

Sequence: 100

Usage: M

Max Use: 10

Loop:

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
K101	61	Free Form Message Free-form information.	M AN 1/30

Damage Indicator  
[023 ]

Use code "D" to indicate damage  
and/or shortage apparent upon  
delivery.

Waiver Indicator  
[024 ]

Use code "W" to certify that a  
waiver has been received.

K102	61	Free Form Message	O AN 1/30
------	----	-------------------	-----------

**Segment:** N1 Name

**Level:** 1

**Sequence:** 110

**Usage:** M

**Max Use:** 1

**Loop:**

**Purpose:** To identify a party by type of organization, name and code

**Comment:** 04 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

**Syntax Notes:** 02 R0203 - At least one of N102 or N103 is required.

03 P0304 - If either N103 or N104 is present, then the other is required.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
--------------	-----------------	------	------------

N101	98	Entity Identifier Code	M ID 2/2
------	----	------------------------	----------

Code identifying an organizational entity or a physical location.

Issuing Office Qualifier  
[026 ]

#### Code Definition

IU	Issuer
----	--------

Consignee Qualifier  
[029 ]

#### Code Definition

CN	Consignee
----	-----------

Tendered To Carrier Qualifier  
[031 100 ]

#### Code Definition

OC	Origin Carrier
----	----------------

Destination Transportation  
Company Qualifier  
[032 ]

#### Code Definition

DC	Destination Carrier
----	---------------------



Diversion/Reconsignment  
From Qualifier  
[038 ]

Code	Definition
T4	Transfer Point

Alternate Terminal Qualifier  
[040 010 ]

Code	Definition
TR	Terminal

Air/Ocean Carrier Name  
Qualifier  
[041 ]

Code	Definition
CA	Carrier Name

Alternate Port or Terminal  
Code  
[040 011 ]

Use the authorized code, identified in the international personal property rate solicitation, of the alternate Military Ocean/Aerial Terminal (MOT/MAT) used for code T and 5 shipments when rate solicitation item 528 applies. Use the authorized code, identified in the international personal property rate solicitation, of the alternate Aerial Port of Embarkation or Debarkation (APOE or APOD) used for code J shipments when rate solicitation 529 applies. Not required for freight shipments.

Air/Ocean Carrier Name  
[042 ]

Use to certify use of air/ocean carrier for international shipments. Qualify in N101.

Issuing Office GBLOC  
Qualifier  
[027 ]

N102 93 Name C AN 1/35  
Free-form name.

N103 66 Identification Code Qualifier C ID 1/2  
Code designating the system/method of code structure used for Identification Code (67).

Code	Definition
27	Government Bill Of Lading Office Code (GBLOC)

Consignee GBLOC Qualifier  
[030 ]

Code	Definition
27	Government Bill of Lading Office Code (GBLOC)

Tendered To Carrier SCAC  
Qualifier  
[031 110 ]

Code	Definition
2	Standard Carrier Alpha Code (SCAC)

Destination Transportation  
Company SCAC Qualifier  
[033 ]

Code	Definition
2	Standard Carrier Alpha Code (SCAC)

Diversion/Reconsignment  
From SPLC Qualifier  
[039 ]

Code	Definition
20	Standard Point Location Code (SPLC)

**N104 67 Identification Code C AN 2/17**  
Code identifying a party.

Issuing Office GBLOC  
[028 ]

Code of Government office that is-  
sues GBL. Qualify in N103.

Consignee GBLOC  
[031 ]

Code of Government office respon-  
sible for shipment at destination.  
Qualify in N103. Not required for  
freight shipments.

Tendered To Carrier SCAC  
[031 120 ]

Use SCAC of origin carrier.  
Qualify in N103.

Destination Transportation  
Company SCAC  
[034 ]

Use SCAC of carrier making the  
delivery. Qualify in N103. Re-  
quired for freight shipments only.

**Segment:** N2 Additional Name Information

**Level:** 1

**Sequence:** 120

**Usage:** M

**Max Use:** 1

**Loop:**

**Purpose:** To specify additional names or those longer than 35 characters in length

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
N201	93	Name Free-form name.	M AN 1/35
N202	93	Name	O AN 1/35

Vessel Name  
[043 ]

Ocean carrier's vessel name.

Diversion/Reconsignment  
From SPLC  
[040 ]

SPLC of location where diversion  
occurs. Qualify in N103. Required  
for freight shipments only.

**Segment:** N9 Reference Number

**Level:** 1

**Sequence:** 150

**Usage:** M

**Max Use:** 5

**Loop:**

**Purpose:** To transmit identifying numbers and descriptive information as specified by the reference number qualifier

**Syntax Notes:** 02 R0203 - At least one of N902 or N903 is required.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
-----------	--------------	------	------------

N901	128	Reference Number Qualifier	M ID 2/2
------	-----	----------------------------	----------

Code qualifying the Reference Number.

#### Code Definition

AW	Air Bill of Lading
OB	Ocean Bill of Lading

#### Code Definition

XC	Cargo Control Number
----	----------------------

N902	127	Reference Number	C AN 1/30
------	-----	------------------	-----------

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Air/Ocean Bill Number  
Qualifier  
[044 ]

Waiver Control Number  
Qualifier  
[046 ]

Air/Ocean Bill Number  
[045 ]

Air or ocean bill of lading number.  
Qualify in N901.

Waiver Control Number  
[047 ]

Use to certify U.S. Flag waiver issued.  
Qualify in N901.

N903	369	Free-form Description	C AN 1/45
------	-----	-----------------------	-----------

Free-form descriptive text.

Authorized Representative  
Name  
[048 ]

Use to certify U.S. Flag waiver is-  
sued. Qualify in N901.

N904 373 Date

O DT 6/6

N905 337 Time

O TM 4/6

**Segment:** LX Assigned Number  
**Level:** 2  
**Sequence:** 120  
**Usage:** M  
**Max Use:** 1  
**Loop:**  
**Purpose:** To reference a line number in a transaction set.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LX01	554	Assigned Number	M N0 1/6
		Number assigned for differentiation within a transaction set.	

### Service Charge Loop Identifier [049 ]

Assign a sequential number for each charge type except as follows: assign number 301 for personal property accessorial service charges performed at origin or in transit, assign number 302 for personal property accessorial service charges performed at destination.

**Segment:** N9 Reference Number**Level:** 2**Sequence:** 130**Usage:** M**Max Use:** 5**Loop:****Purpose:** To transmit identifying numbers and descriptive information as specified by the reference number qualifier**Syntax Notes:** 02 R0203 - At least one of N902 or N903 is required.**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
------------------	---------------------	-------------	-------------------

N901	128	Reference Number Qualifier	M ID 2/2
------	-----	----------------------------	----------

Code qualifying the Reference Number.

<u>Code</u>	<u>Definition</u>
LU	Location Number

N902	127	Reference Number	C AN 1/30
------	-----	------------------	-----------

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

N903	369	Free-form Description	C AN 1/45
------	-----	-----------------------	-----------

N904	373	Date	O DT 6/6
------	-----	------	----------

N905	337	Time	O TM 4/6
------	-----	------	----------

Extra Pickup/Delivery  
Location Qualifier  
[049 010 ]

Extra Pickup/Delivery State  
Code  
[049 015 ]

Use 2-character state code (FIPS-PUB-5-1) of location of extra pickup/delivery where additional service occurred. Use only for personal property shipments with DoD accessorial item codes of 101 or any item that uses rates for item 101, 112, and 502, or any item that uses rates for item 502. Qualify in N901. Not required for freight shipments.



**Segment:** L0 Line Item - Quantity and Weight  
**Level:** 2  
**Sequence:** 170  
**Usage:** O  
**Max Use:** 10  
**Loop:**

**Purpose:** To specify quantity, weight, volume and type of service for a line item including applicable "quantity/rate-as" data.

**Syntax Notes:** 02 P0203 - If either L002 or L003 is present, then the other is required.  
04 P0405 - If either L004 or L005 is present, then the other is required.  
06 P0607 - If either L006 or L007 is present, then the other is required.  
08 P0809 - If either L008 or L009 is present, then the other is required.  
11 C1104 - If L011 is present, then 04 is required.

#### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
L001	213	Lading Line Item Number	O N0 1/3
L002	220	Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.). Note: Weight may be defined by either data element 220 or 81.	C R 1/11
L003	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based.	C ID 2/2
L004	81	Weight Numeric value of weight.	C R 1/8

Number of Units Performed  
[050 ]

Number of units of service performed. Qualified in L003. Not required for freight shipments.

Number of Units Performed  
Qualifier  
[050 010 ]

See Appendix 10.F for application.

Weight  
[050 015 ]

Weight of the personal property if  
L112 is 112A, 112B, 112C,  
130D, 145B, 152D, 518A, 518C,  
or 534A. Qualified in L005. Not  
required for freight shipments.

Weight Qualifier  
[050 020 ]

L005 187 Weight Qualifier C ID 1/2  
Code defining the type of weight.

Code Definition

B Billed Weight

L006 183 Volume C R 1/8

L007 184 Volume Unit Qualifier C ID 1/1

L008 80 Lading Quantity C N0 1/7

L009 211 Packaging Form Code C ID 3/3

L010 458 Dunnage Description O AN 2/25

L011 188 Weight Unit Qualifier O ID 1/1  
Code specifying the weight unit.

Code Definition

L Pounds

Weight Unit Qualifier  
[050 025 ]

L012 56 Type of Service Code O ID 2/2

**Segment:** L1 Rate and Charges**Level:** 2**Sequence:** 180**Usage:** O**Max Use:** 10**Loop:****Purpose:** To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements**Syntax Notes:** 04 R040506 - At least one of L104,L105 or L106 is required.

14 P1415 - If either L114 or L115 is present, then the other is required.

17 P1718 - If either L117 or L118 is present, then the other is required.

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
L101	213	Lading Line Item Number	O N0 1/3
L102	60	Freight Rate	O R 1/9
L103	122	Rate/Value Qualifier	O ID 2/2
L104	58	Charge	C N2 1/9
		For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified.	
L105	191	Advances	C N2 1/9
L106	117	Prepaid Amount	C N2 1/9
L107	120	Rate Combination Point Code	O AN 3/9
L108	150	Special Charge or Allowance Code	O ID 3/3

**Service Charge  
[051 ]**

Charge for each service identified in L108. Implied decimal at second position from right.

**Service Charge Code**  
**[052 ]**

Services regulated by the Military Traffic Management Command (MTMC). See Billing Instructions available from DoD payment center for more information. See Appendix 10.F for cross reference from DoD codes to ASC X12 codes.

Code identifying type of special charge or allowance.

L109	121	Rate Class Code	O	ID	1/3
L110	39	Entitlement Code	O	ID	1/1
L111	16	Charge Method of Payment	O	ID	1/1
L112	276	Special Charge Description	O	AN	2/25

Identification of special charge. This data element is used whenever an applicable code cannot be found in data element 150.

**Service Charge Description**  
**[053 ]**

Use a free-form description of any third party or miscellaneous service code identified in L108. In addition, use DoD code that further describes a personal property service. See Appendix 10.F for application.

L113	257	Tariff Application Code	O	ID	1/1
L114	74	Declared Value	C	N2	2/10
L115	122	Rate/Value Qualifier	C	ID	2/2
L116	372	Lading Liability Code	O	ID	1/1
L117	220	Billed/Rated-as Quantity	C	R	1/11
L118	221	Billed/Rated-as Qualifier	C	ID	2/2

**Segment:** L7      **Tariff Reference**  
**Level:** 2  
**Sequence:** 200  
**Usage:** O  
**Max Use:** 10  
**Loop:**  
**Purpose:** To reference details of the tariff used to arrive at applicable rates or charge  
**Comment:** 10 L710 is the Effective Date.  
15 "City" and "State" in L715 and L716 are used for rate combination city and state.

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
L701	213	Lading Line Item Number	O NO 1/3
L702	168	Tariff Agency Code	O ID 1/4
L703	171	Tariff Number	O AN 1/7
L704	172	Tariff Section	O AN 1/2
L705	169	Tariff Item Number	O AN 1/16
L706	170	Tariff Item Part	O NO 1/2
L707	59	Freight Class Code	O AN 2/5
L708	173	Tariff Supplement Identifier	O AN 1/4
L709	46	Ex Parte	O AN 4/4
L710	373	Date	O DT 6/6
L711	119	Rate Basis Number	O AN 1/6
L712	227	Tariff Column	O AN 1/2

Tariff/Tender Miles  
[054 ]  
Mileage used in calculating mileage-  
related charges. Qualify in L714.

Tariff/Tender Miles Qualifier  
[055 ]

**L713 294 Tariff Distance** **O NO 1/5**  
Distance on which the rate for a shipment is based.

**L714 295 Distance Qualifier** **O ID 1/1**  
Code identifying the distance unit.

Code Definition

T Tariff/Tender Miles

**L715 19 City Name** **O AN 2/19**

**L716 156 State or Province Code** **O ID 2/2**

**Segment:** L3 Total Weight and Charges**Level:** 3**Sequence:** 10**Usage:** C**Max Use:** 1**Loop:****Purpose:** To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items**Comment:** 05 L305 is the total charges.**Syntax Notes:** 01 P0102 - If either L301 or L302 is present, then the other is required.  
03 P0304 - If either L303 or L304 is present, then the other is required.  
09 P0910 - If either L309 or L310 is present, then the other is required.  
14 P1415 - If either L314 or L315 is present, then the other is required.**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>						
L301	81	Weight Numeric value of weight.	C	R	1/8				
L302	187	Weight Qualifier Code defining the type of weight.	C	ID	1/2				
		<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>B</td><td>Billed Weight</td></tr></table>	<u>Code</u>	<u>Definition</u>	B	Billed Weight			
<u>Code</u>	<u>Definition</u>								
B	Billed Weight								
L303	60	Freight Rate	C	R	1/9				
L304	122	Rate/Value Qualifier	C	ID	2/2				
L305	58	Charge	O	N2	1/9				
L306	191	Advances	O	N2	1/9				

**Total Billed Weight**  
[055 020 ]Total billed weight in pounds,  
rounded to whole number. If not  
applicable to invoice, enter 0.**Total Billed Weight Qualifier**  
[055 025 ]

L307	117	Prepaid Amount	O	N2	1/9
L308	150	Special Charge or Allowance Code	O	ID	3/3
L309	183	Volume	C	R	1/8
L310	184	Volume Unit Qualifier	C	ID	1/1
L311	80	Lading Quantity	O	N0	1/7
L312	188	Weight Unit Qualifier	O	ID	1/1
L313	171	Tariff Number	O	AN	1/7
L314	74	Declared Value	C	N2	2/10
L315	122	Rate/Value Qualifier	C	ID	2/2



**Segment:** SE Transaction Set Trailer  
**Level:** 3  
**Sequence:** 20  
**Usage:** M  
**Max Use:** 1  
**Loop:**  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).  
**Comment:** 00 SE is the last segment of each transaction set.

### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	96	Number of Included Segments	M NO 1/6 Total number of segments included in a transaction set including ST and SE segments.
SE02	329	Transaction Set Control Number	M AN 4/9 Identifying control number assigned by the originator for a transaction set.

Included Number of  
Segments  
[056 ]

Total segments in this transaction set including the ST and SE segments.

Transaction Set Control  
Number  
[057 ]

This data element ends the transaction set and should match the number that appears in the ST02 at the beginning of the transaction set.

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## **10.C Examples - X12.104 Transaction Set 210 Motor Carrier Invoice**

This appendix contains an example of the ASC X12 Transaction Set 210 for transmitting invoice information to a DoD payment center.

The example illustrates the use of this transaction set to transmit invoice information to the Defense Finance and Accounting Service - Indianapolis Center (DFAS-IN).

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# Example - Invoice information from Carrier to DFAS-IN using ASC X12 210

ST*210*00001 n/l	Transaction set header
B3**7846-1112*B1562824*PP**910623*83490*	
*910623*035*PIEC n/l	Beginning segment
ITD***5**15 n/l	Discount terms
N9*CN*257684 n/l	Carrier reference number
N9*PQ*1633*45421 n/l	Payee code
G62*86*910622*8*1230 n/l	Pickup date and time
K1*D n/l	Damage indicator
N1*OC**2*PIEC n/l	Transportation company tendered to SCAC
N1*IU**27*LNFL n/l	Issuing Office GBLOC
N1*DC**2*PIEC n/l	Destination transportation company
LX*1 n/l	Charge loop ID
L1****60000****LHS n/l	Transportation linehaul charge
L7*****567*T n/l	Tender miles
LX*2 n/l	Charge loop ID
L1****21690****EXP n/l	Accessorial services charge
LX*3 n/l	Charge loop ID
L1****1800****405 n/l	Fuel surcharge
L3*10000*B n/l	Billed Weight
SE*19*00001 n/l	Transaction set trailer

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## 10.F Additional DoD Code Lists

This appendix contains additional DoD code lists for formatting invoice data to the ASC X12 Transaction Set 210. Please note that DoD code definitions may differ slightly from those presented in the ASC X12 Standards publications.

Code list includes:

[051 ] - Service Charge Code

Footnote definitions:

\* Need new X12 code

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**[051 ] Service Charge Code**

Mapping: 2 180 L108 150

**Accessorial Services for Freight Motor Shipments**

DoD Code	X12 Code	DoD Definition	L112 Value	Effective Date	Cancellation Date
AC	045	Advancing Charges			
OD	520	Overdimension Permit			
ST	675	Signature Tally			
CB	CHN	Chains and Binders			
CS	CIS	Constant Surveillance			
DN	DDN	Dual Driver with National Agency Check			
DD	DDP	Dual Driver			
DP	DEP	Detention With Power Unit			
DW	DET	Detention Without Power Unit			
EU	EED	Exclusive Use			
EL	ELS	Extra Lights			
EM	EMT	Empty Movement			
ER	ERS	Empty Return			
SO	EXM	Stop-off In Transit (Excess Mileage Charge)			
EX	EXP	Expedited Service			
HF	HHB	Handling Freight			
PD	HOL	Sunday/Holiday			
IM	IMP	Impactographs			
EF	MEN	Escort (Overnight Subsistence)			
EF	MES	Escort (Standard)			
EF	MET	Escort (Telephones)			
MS	MMS	Motor Surveillance(12-hour Calls)			3/1/94
MS	MNS	Motor Surveillance(12-hour Calls)		3/1/94	
MS	MVS	Special Motor Surveillance Charge			
OW	PER	Overweight Permit	(2 char state code)		
PR	PRL	Prelodging			
PS	PSS	Protective Security(Without Armed Drivers)			
PT	PTS	Protective Tarping			
PD	PUD	Pickup/Delivery			

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EDI CONVENTION

MOTOR CARRIER INVOICE  
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DoD Code	X12 Code	DoD Definition	L112 Value	Effective Date	Cancellation Date
RC	RCC	Reconsignment/Diversion			
RD	RCL	Redelivery			
RV	RLS	Relocation of Vehicle			
RU	RSS	Restricted Speeds		3/1/94	
PD	SAT	Saturday Pickup			
SE	SEV	Security Escort Service			
SM	SMS	Satellite Motor Surveillance			3/1/94
SM	SNS	Satellite Motor Surveillance		3/1/94	
SO	SOC	Stop-Off			
SP	SPU	Split Pickup/Delivery			
SR	SRS	Surveying Routes			
RU	SRT	Restricted Speeds			3/1/94
SG	SRG	Storage			
LU	URC	Loading/Unloading			
VF	VFN	Vehicle Furnished But Not Used			
VI	VIS	Vehicles Inoperable			
VT	VTs	Vehicles In Truckaway			
WV	WTV	Weight Verification			

**Accessorial Services For Freight Bulk Fuel Shipments**

DoD Code	X12 Code	DoD Definition
AC	045	Advancing Charges
LS	ADL	Advance Loading Charge
CL	CLN	Cleaning
DP	DEP	Detention With Power Unit
DW	DET	Detention Without Power Unit
EH	EDD	Equipment Hose At Destination Charge
EH	EDO	Equipment Hose At Origin Charge
SO	EXM	Stop-off In Transit (Excess Mileage Charge)
EX	EXP	Expedited Service
PD	HOL	Sunday/Holiday
EH	HOS	Equipment Hose (Over 36')
EH	HOX	Equipment Hose (Special Type)
PE	PAJ	Pumping Equipment
PD	PUD	Pickup/Delivery
RC	RCC	Reconsignment/Diversion
RD	RCL	Redelivery
PD	SAT	Saturday Pickup
SO	SOC	Stop-off
SP	SPU	Split Pickup/Delivery
SG	SRG	Storage
VF	VFN	Vehicle Furnished But Not Used
WD	WDS*	Waterfront Delivery Charge

## Accessorial Services For Pipeline Shipments

DoD Code	X12 Code	DoD Definition	Effective Date	Cancellation Date
AJ	AIB*	Additional Injection/Blending Service		
DE	DEL	Delivery Service		
FL	FLT*	Filtration Service		7/31/94
FL	FTR	Filtration Service	7/31/94	

### Third Party or Miscellaneous Services

DoD Code	X12 Code	DoD Definition	L112 Value
-	TPS	Third Party/Miscellaneous Service	Description

### Linehaul Services

DoD Code	X12 Code	DoD Definition	L112 Value
-	LHS	Linehaul Service	-

### Surcharges

DoD Code	X12 Code	DoD Definition	L112 Value
-	100	Air	-
-	405	Fuel	-

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## **Accessorial Services for Personal Property Shipment**

(Domestic)

See DoD EDI Convention for Transaction Set 859, Generic Freight Invoice.

## **Accessorial Services for Personal Property Shipments**

(International)

See DoD EDI Convention for Transaction Set 859, Generic Freight Invoice.

## **Accessorial Services for Freight Air Shipments**

See DoD EDI Convention for Transaction Set 110, Air Freight Invoice.

## **Accessorial Services for Freight Rail Shipments**

See DoD EDI Convention for Transaction Set 410, Rail Carrier Invoice.

# REPORT DOCUMENTATION PAGE

Form Approved  
OPM No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources gathering, and maintaining the data needed, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE May 94		3. REPORT TYPE AND DATES COVERED Final	
4. TITLE AND SUBTITLE DoD Electronic Data Interchange (EDI) Convention: TDCC/EDIA Transaction Set 210 Motor Carrier Invoice (Version 003020)				5. FUNDING NUMBERS C MDA903-90-C-0006 PE 0902198D	
6. AUTHOR(S) W. Michael Bridges and Harold L. Frohman					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Logistics Management Institute 2000 Corporate Ridge McLean, VA 22102-7805				8. PERFORMING ORGANIZATION REPORT NUMBER LMI- DF301LN2	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Chief RPTA Division Defense Finance and Accounting Service — Indianapolis Center Information Systems Directorate, Building 1 Fort Harrison, IN 46249-0901				10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES					
12a. DISTRIBUTION/AVAILABILITY STATEMENT A: Approved for public release; distribution unlimited				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This is an electronic data interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept a transaction invoice using the ASC X12.104 Transaction Set 210 Motor Carrier Invoice (003020).					
14. SUBJECT TERMS Electronic Data Interchange; EDI; DoD EDI Convention; Electronic Commerce; ANSI X12; X12; electronic standards; electronic business standards; computer-to-computer exchange of data; electronic documents; electronic records; paperless environment; conventions; invoice; motor carrier				15. NUMBER OF PAGES 96	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT UL		